

TRANSLATION CONTROLLED CURSOR

ABSTRACT

A motion controlled handheld device includes a display having a viewable surface and operable to generate a current image. The device includes a motion detection module operable to detect motion of the device within three dimensions and 5 to identify components of the motion in relation to the viewable surface. The components comprise a first component parallel to the viewable surface, a second component parallel to the viewable surface and perpendicular to the first component, and a third component perpendicular to the viewable surface. The device also includes a display control module operable to display a cursor on the viewable 10 surface, to determine a translation vector that is substantially opposite to the sum of the first component and the second component, and to translate the cursor across the viewable surface according to the translation vector in order to substantially maintain the position of the cursor in space with respect to the viewable surface.